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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/903,656	07/13/2001	Sang IL Seo	0630 - 1284P	1832
2292	7590	11/10/2003	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			NATNAEL, PAULOS M	
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22040-0747			2614	
DATE MAILED: 11/10/2003				

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/903,656	SEO ET AL.
	Examiner Paulos M. Natnael	Art Unit 2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on \_\_\_\_ .
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_ is/are allowed.
- 6) Claim(s) 1-4 is/are rejected.
- 7) Claim(s) \_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_ is: a) approved b) disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_ .
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                   | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)          | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ . | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1 and 3 are rejected under 35 U.S.C. 102(e) as being anticipated by

Shintani, U.S. Pat. No. 6,490,002.

Considering claim 1, the claimed

a) a process of judging whether a transmission is OSD transmission or not, is met by the disclosure “Selection of the analog signal can be carried out by an auto-detect function built into the HDTV, such as a switching device 370, or by sensing the presence of the OSD information via a superimposed DC level on the chroma signal or in the digital transport stream”. (col. 6, lines 14-18)

b) a process of transmitting the OSD through a analog connect if the transmission is judged as the OSD transmission, is met by the disclosure that “When an OSD signal is available for use and [sic] display on the HDTV monitor, the HDTV switches the monitor’s signal source to the analog input, thereby allowing the HDTV to display and

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utilize the OSD of the STB, such as for channel navigation." (col. 3, line 66 to col. 4, line  
3)

Considering claim 3, the claimed wherein the digital AV contents are transmitted through a digital connect during the OSD is transmitted through the analog connect, is met by the digital path 160, fig.1;

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shintani, U.S. Pat. No. 6,490,002.

Considering claim 2, the claimed method wherein the OSD is transmitted through the analog connect only when the volume of the OSD is larger than a certain volume.

See rejection of claim 4;

Considering claim 4, the claimed system for displaying the digital contents and the OSD by connecting a signal output apparatus and a signal input apparatus, the signal output

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apparatus including a first controlling unit for controlling an OSD generating unit so that the OSD is transmitted through the analog connect if the volume of the OSD is larger than a certain volume; and the signal input apparatus including a second controlling unit for controlling a video display unit so that an OSD input terminal is switched into an analog terminal when the OSD larger than a certain volume is transmitted from the signal output apparatus by communicating with the first controlling unit.

Regarding claim 4, Shintani discloses a supplemental data path for supporting on-screen display from external sources in a TV monitor using a secondary analog signal path. Shintani discloses a CPU 240 for controlling the STB 100, and another CPU controls the operation of the receiver 120. Shintani teaches that the OSD information may be transmitted along with the digital transport stream, along with the HD digital data, via a high speed digital interface. (col. 3, lines 24-28) Shintani further teaches [“in the case where the video and OSD signals are simply superimposed, an inexpensive CMOS switch can be used if the signal bandwidth is not very large,” (col. 5, lines 65 through col. 6, lines 1) suggesting that signal bandwidth and/or volume must be taken into account when choosing a transmission path]. Therefore, it would have been obvious to the skilled in the art at the time the invention was made to modify the system of Shintani by implementing the method whereby when the signal bandwidth or volume is large the OSD would be transmitted through the analog path, in order to prevent over loading the digital path and slowing the high speed video transmission.

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ludtke et al., U.S. Pat. No. 6,593,937 discloses method of handling high bandwidth on-screen display graphics data over a distributed IEEE 1394 network.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paulos M. Natnael whose telephone number is (703) 305-0019. The examiner can normally be reached on 9:00am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on (703) 305-4795. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.



MICHAEL H. LEE  
PRIMARY EXAMINER

Paulos Natnael Pmn  
October 30, 2003